

FIGURE 1

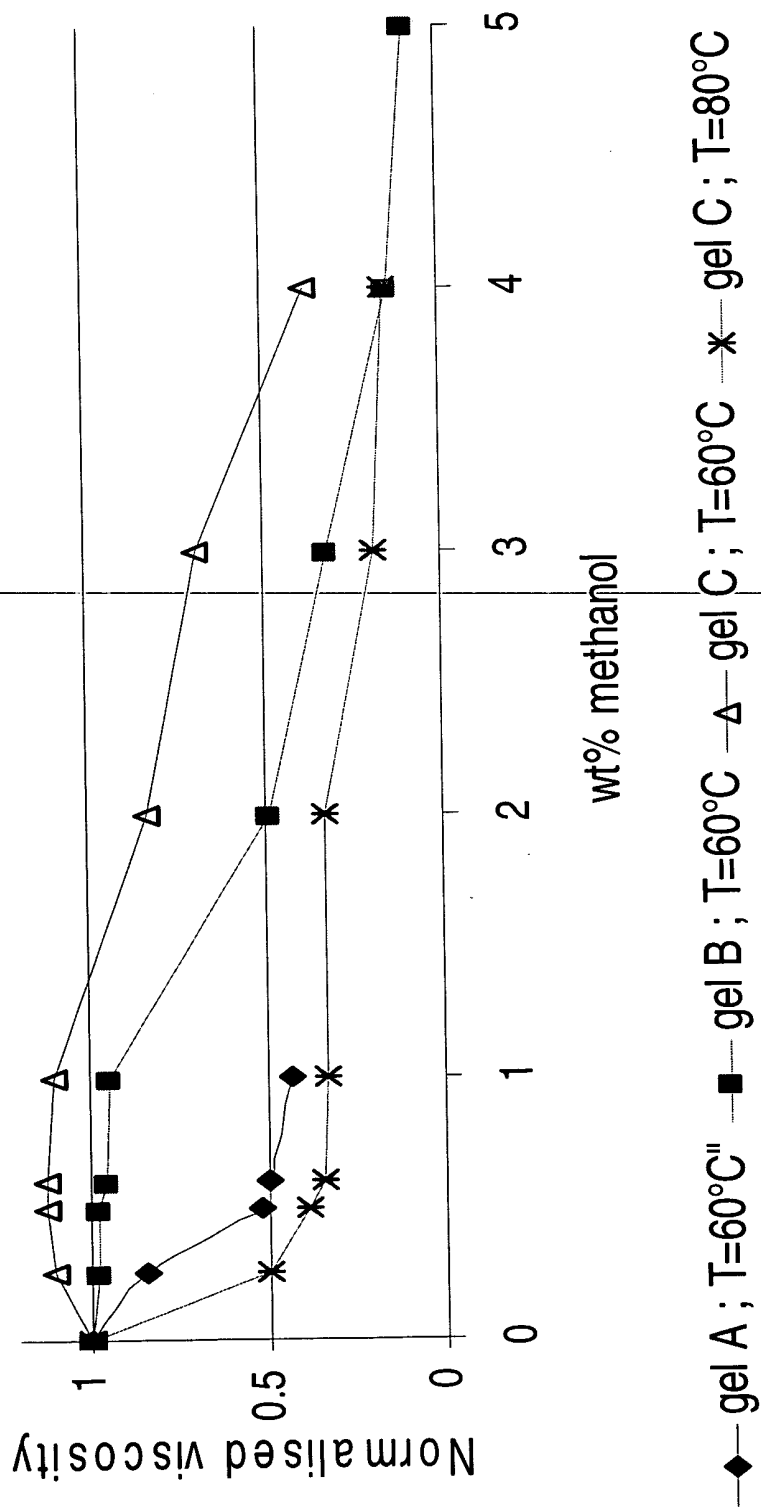
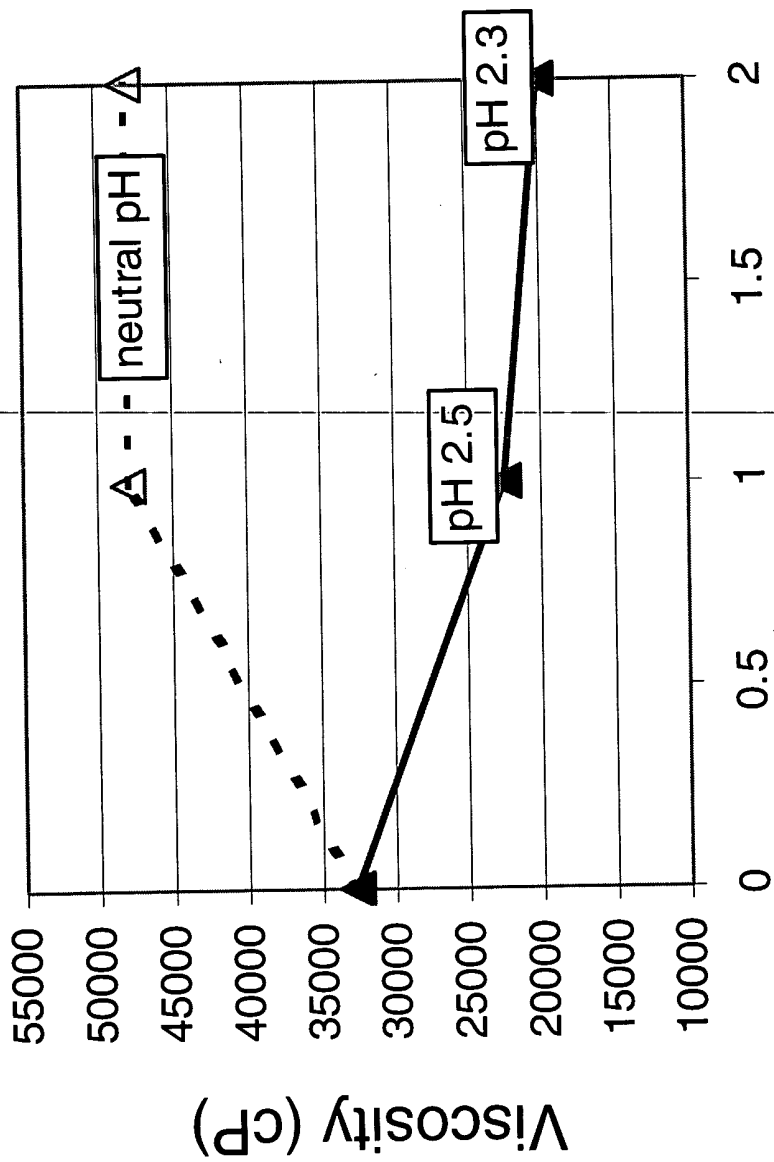


FIGURE 2

Figure 1 is a semi-logarithmic plot showing the viscosity (cP) of various dimethyl ester blends as a function of the weight percentage (wt%) of the ester. The y-axis is logarithmic, ranging from 1000 to 100,000 cP. The x-axis is linear, ranging from 0 to 4 wt% ester. The legend identifies six series:

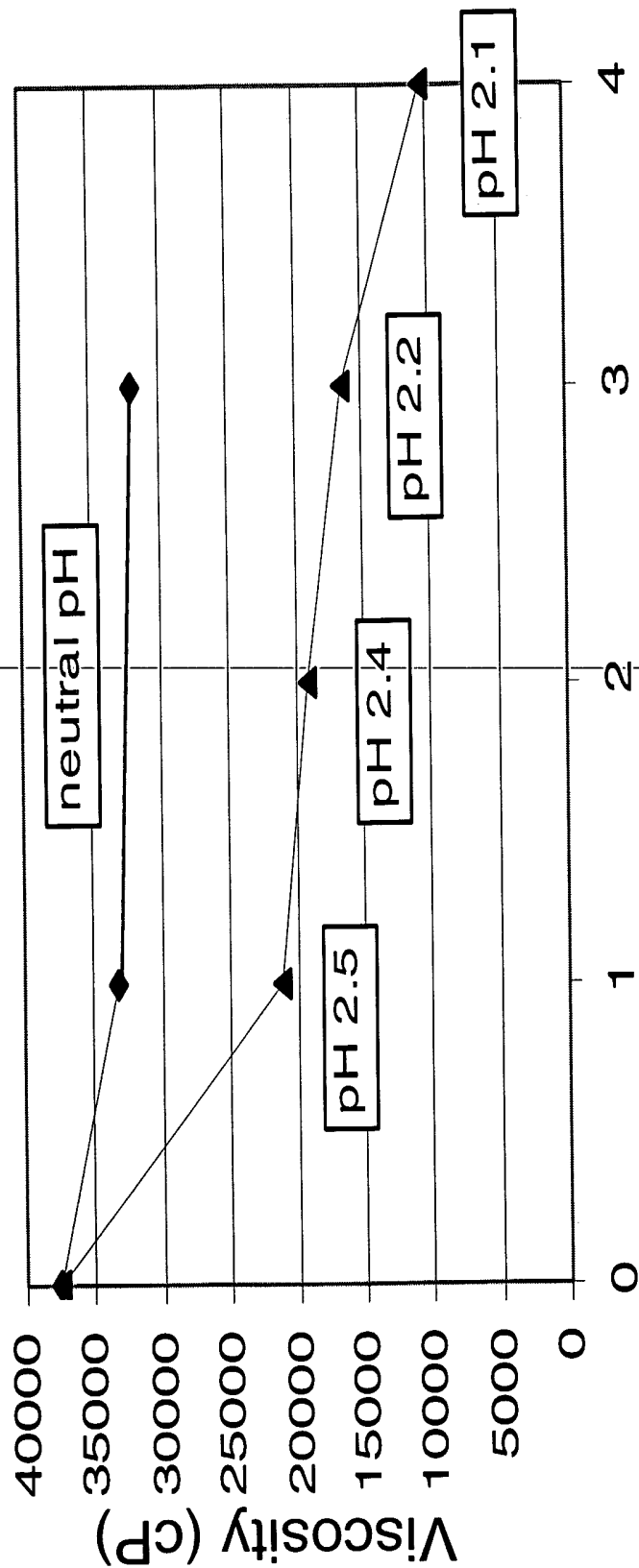
- Dimethyl itaconate (dashed line with diamond markers)
- Dimethyl malate (dashed line with cross markers)
- Dimethyl glutarate (dashed line with triangle markers)
- Dimethyl diethyl malonate (solid line with triangle markers)
- Dimethyl diethyl malonate (solid line with circle markers)
- Dimethyl azelate (dashed line with diamond markers)

The plot shows that viscosity increases with the weight percentage of the ester. Dimethyl azelate exhibits the highest viscosity at 4 wt%, while Dimethyl itaconate and Dimethyl malate show the lowest viscosities at 0 wt%.



w% adipic acid

FIGURE 4



w% glutaric acid

FIGURE 5

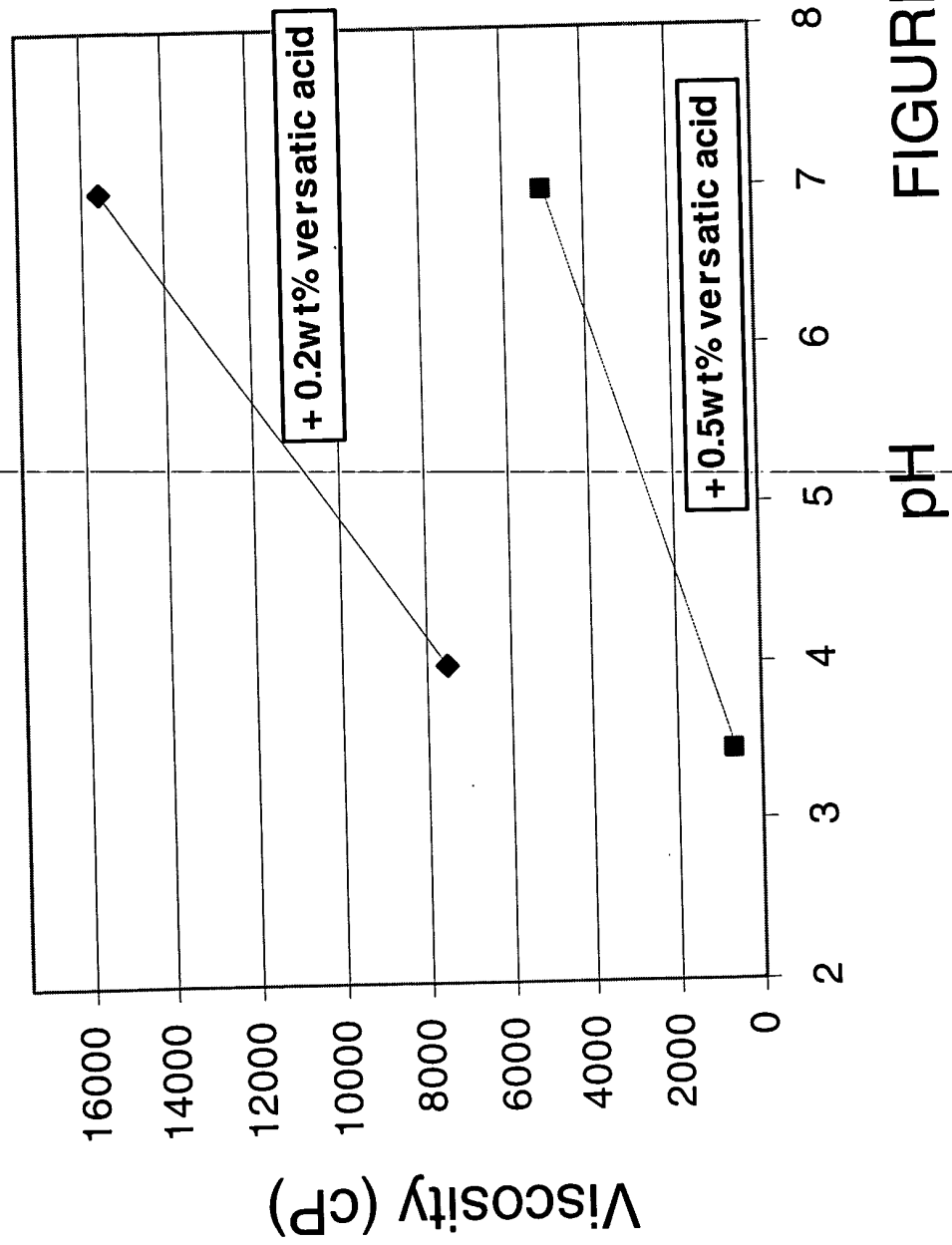


FIGURE 6

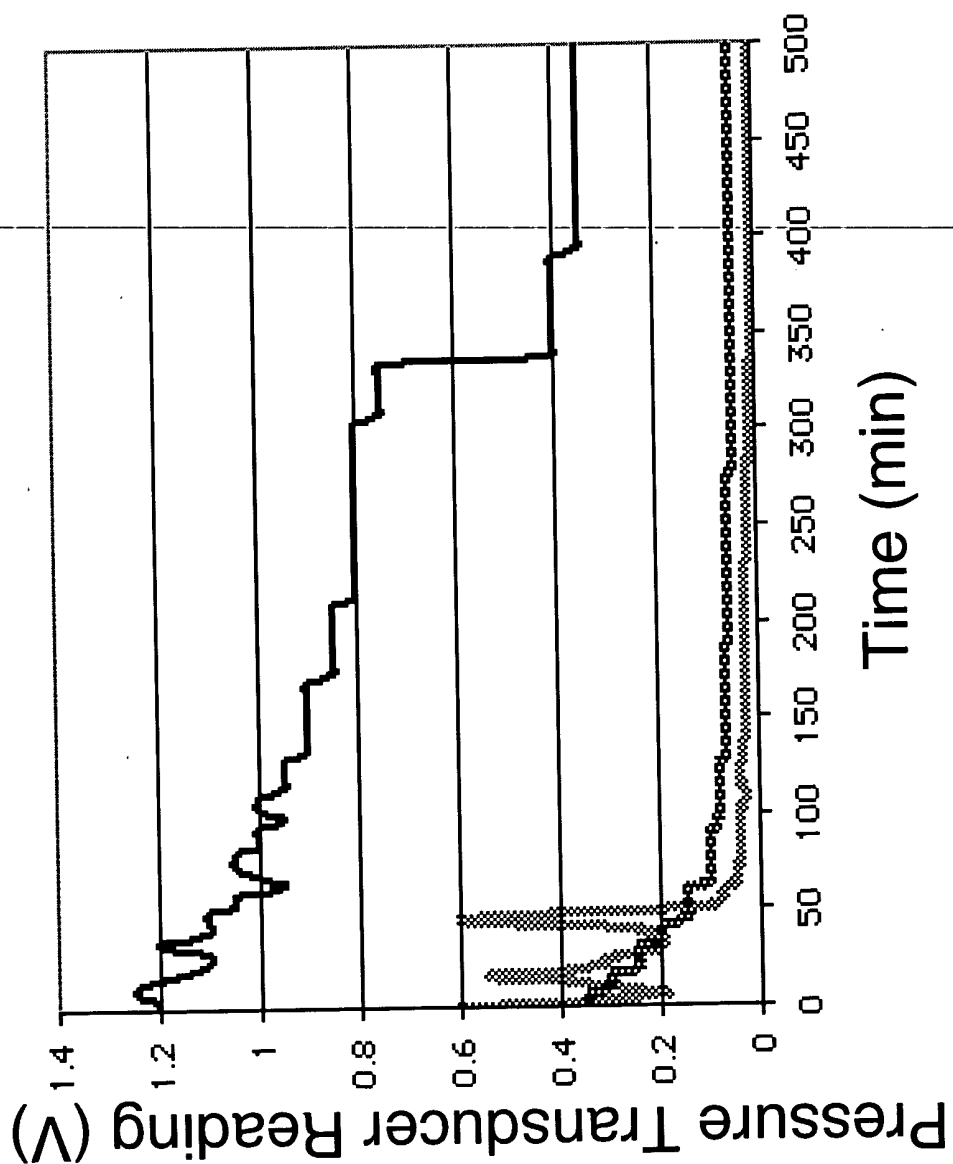


FIGURE 7

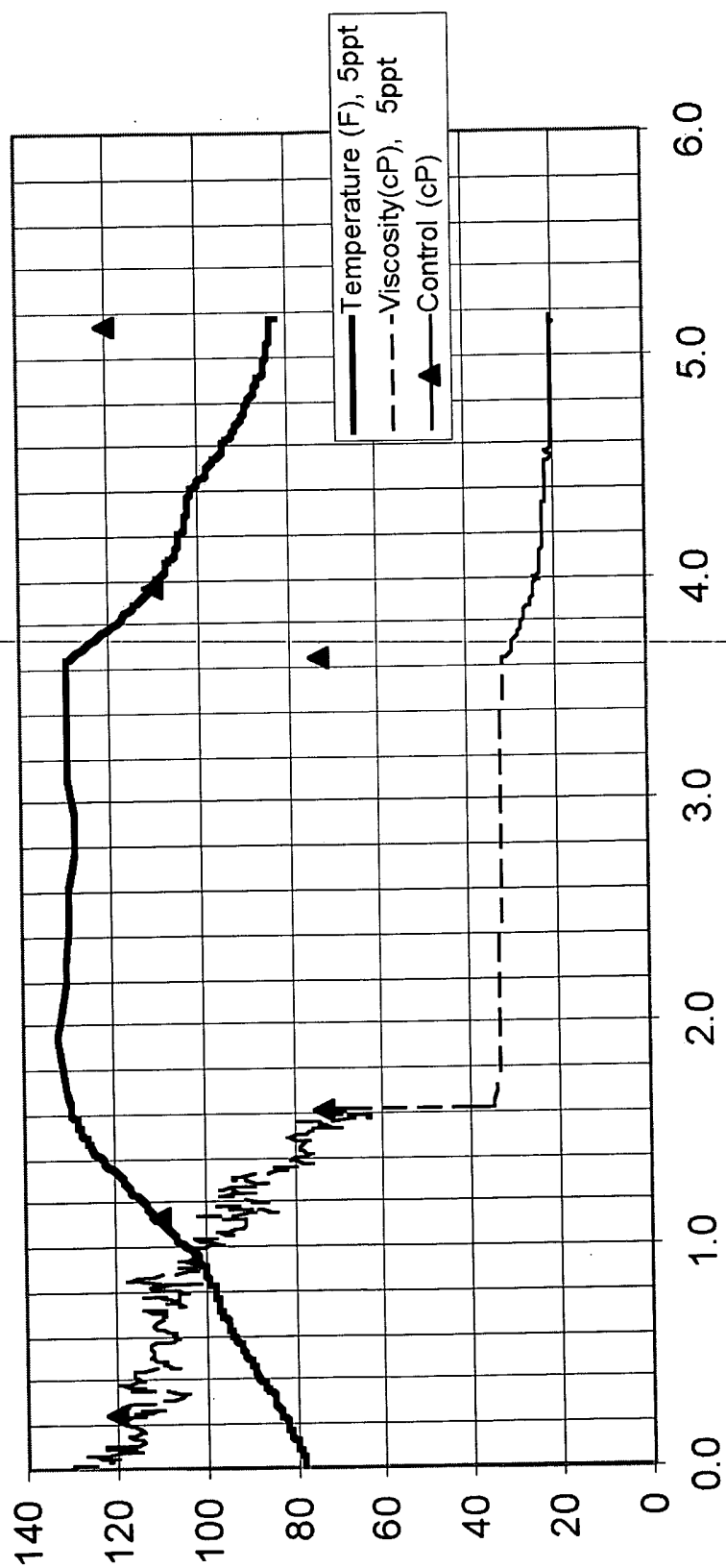


FIGURE 8



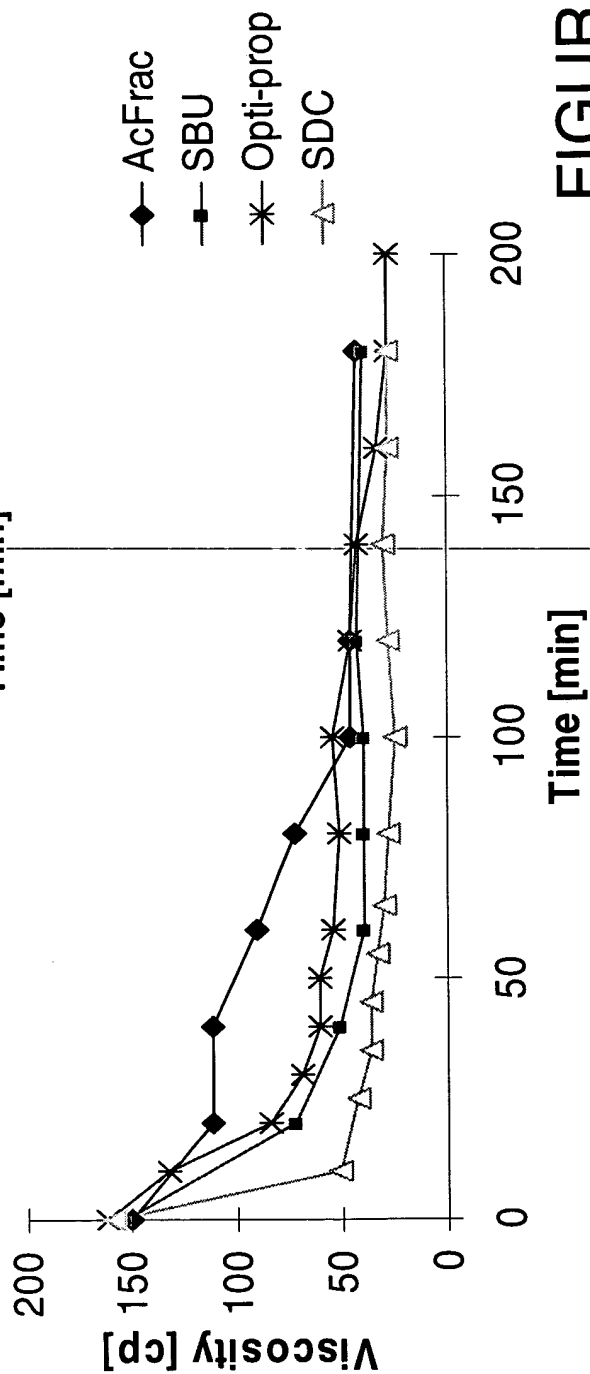
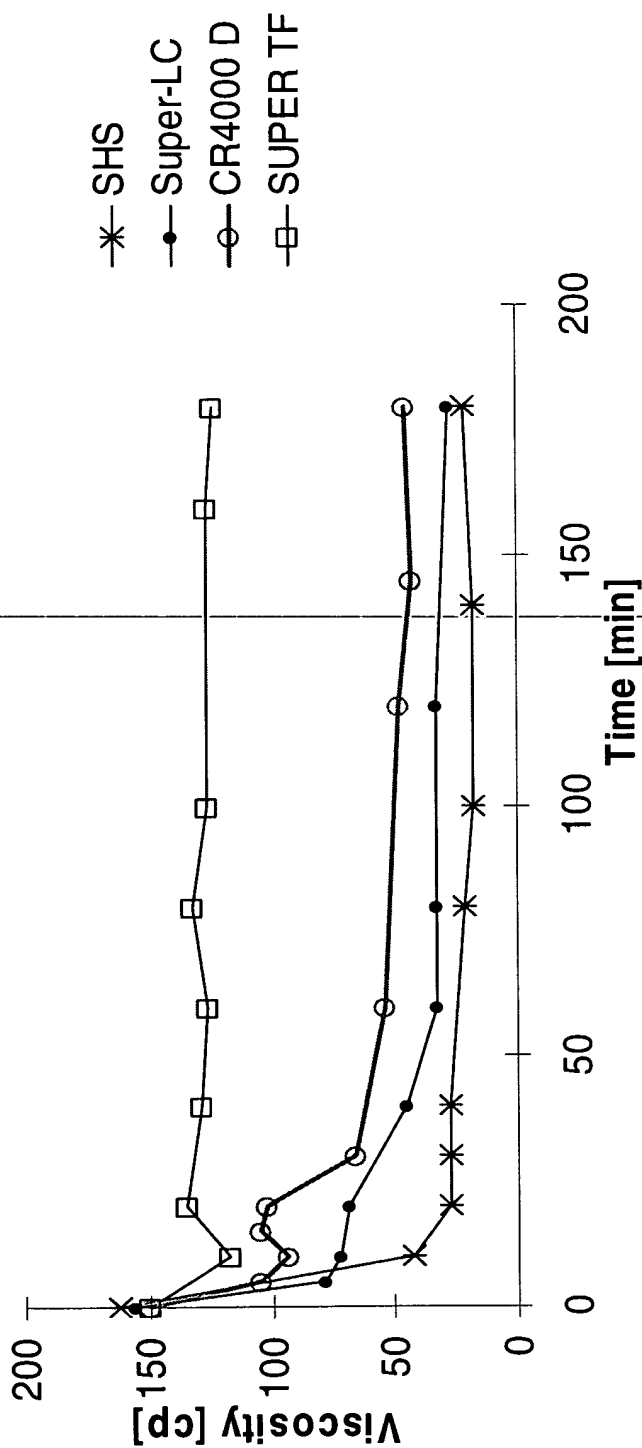


FIGURE 9

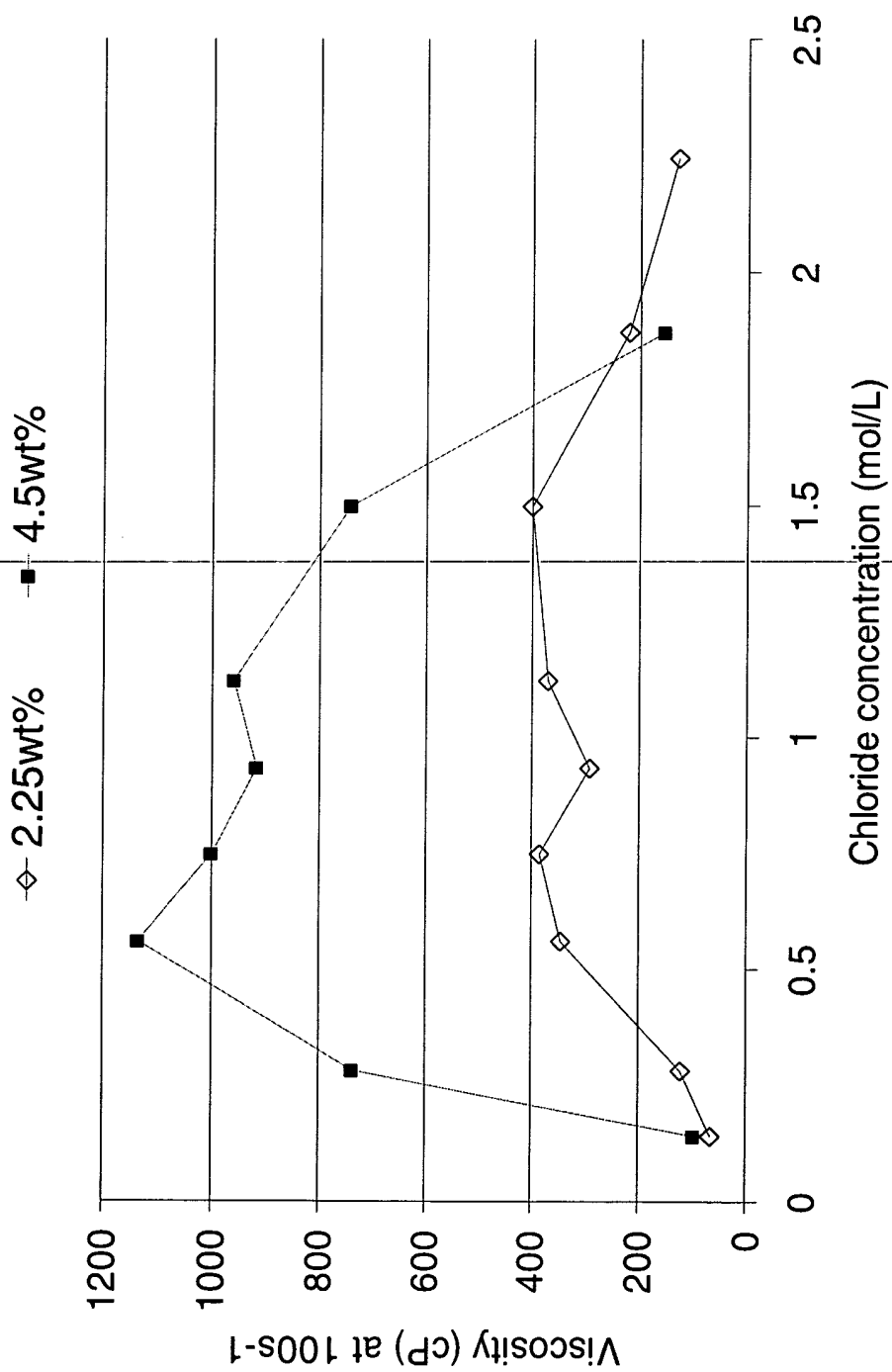


FIGURE 10